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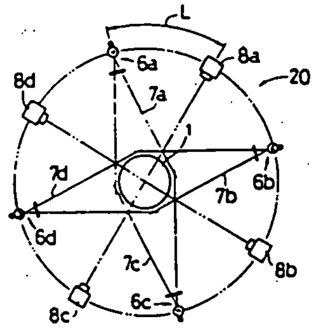
(12)

(54) SHAPE DETECTING METHOD
(11) 1-54208 (A) (43) 1.3.1989 (19) JP
(21) Appl. No. 62-211554 (22) 25.8.1987
(71) O G JOHO SYST K.K.(1). (72) SABURO TERAMURA(5)
(51) Int. Cl⁴. G01B11/24

PURPOSE: To make it possible to easily measure the form of an object with high accuracy, by forming an image of the object through projection of coded light patterns, and from the binary-coded pattern of each formed image, calculating the form of the object by trigonometry.

CONSTITUTION: Each of a plurality of light pattern projecting means 6a~6d provided around an object 1 to be detected successively projects many coded light patterns to the object 1. The projected light patterns are formed into an image by television cameras 8a~8d corresponding to the projecting means 6a~6d. An image of each light pattern formed by each of the television cameras 8a~8d is binary-coded in a processing circuit, and then stored in a memory. Accordingly, the information on three-dimensional shape of the object 1 can be obtained by the trigonometry based on the arrangement of the projecting means 6a~6d and television cameras 8a~8d and the binary-coded patterns.



20: measuring instrument